

 $\begin{array}{lll} \mbox{Nonactin} & C: & R_1 = R_2 = R_3 = R_4 = CH_3 \\ \mbox{Monactin} & D: & R_1 = CH_2CH_3, \, R_2 = R_3 = R_4 = CH_3 \\ \mbox{Dinactin} & E: & R_1 = R_3 = CH_2CH_3, \, R_2 = R_4 = CH_3 \\ \mbox{Trinactin} & F: & R_1 = R_2 = R_3 = CH_2CH_3, \, R_4 = CH_3 \\ \mbox{Tetranactin} & G: & R_1 = R_2 = R_3 = R_4 = CH_2CH_3 \end{array}$

Figure 1

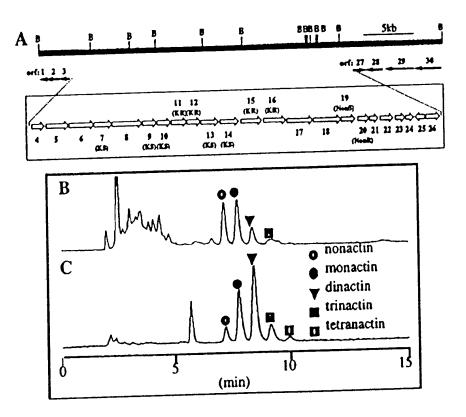


Figure 2

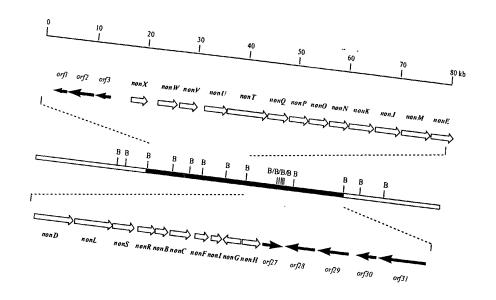


Figure 3

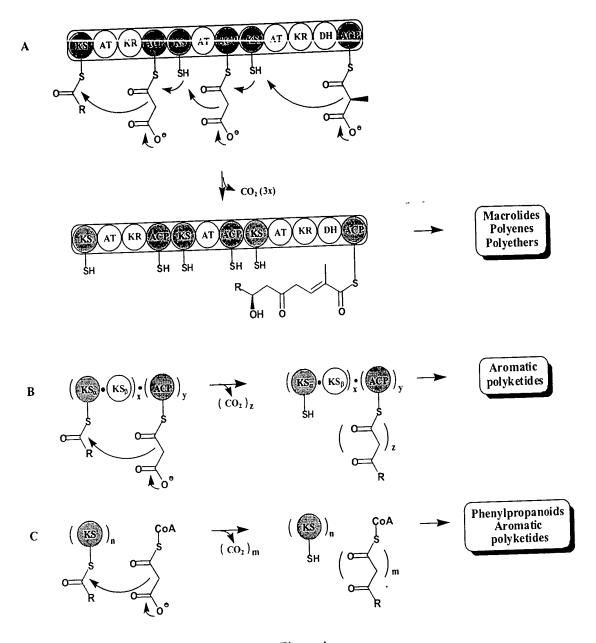


Figure 4

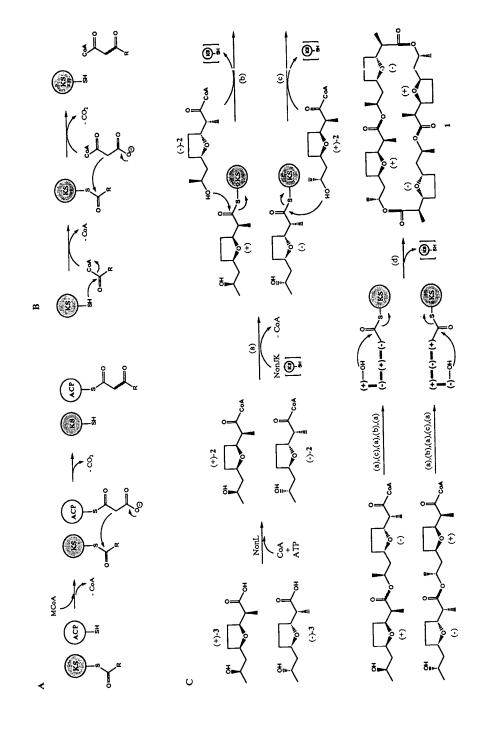


Figure 5



В					
Entry	Plasmid		Genes	Yield of 1 (μg)	
			Pactl Pactl		
11	pBS2014	pBS2015		200	
Ш		pBS2015		0	
IV		pBS2016		0	
٧	pBS2017			0	
VI	pBS2017	pBS2016		180	
VII	pBS2017	pBS2018		560	
VIII	pBS2019	pBS2018		470	
IX	pBS2020	pBS2018	C161G	0	
X	pBS2021	pBS2018	C169G	0	

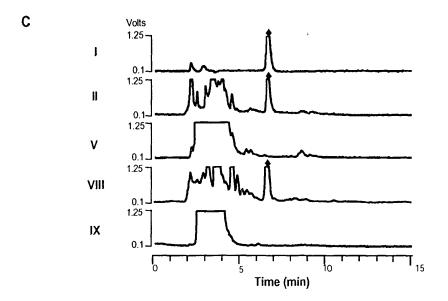


Figure 6

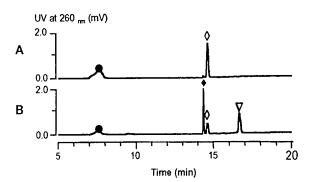


Figure 7

Type III-FAS	FabB	. ISSACATS	A -126aa	YLNS	GTST	-24aa-	TKAMTG	HSIL@A
	FabF	TATACTSG	V -131aa-	YVNA	GTGT	-26aa-	TKSMTG	HLLCA
Type I-PKS	DEBS1	VDTA <mark>C</mark> SSS	L -126aa-	AVEA	GTGT	-27aa-	VKSNLG	HTQAA
Type I-PKS	PikAIV	VDTACSSS						
Type II-PKS	-Act Ksa	VSTCCISC	L :-131aa-	YINA	GSGT	-26aa-	TKSMVG	HSLEA
	Tem KSa							
Type III-PKS	CHS2	YQQGCFAG						
L	RppA	AQLGCAAG			•			
	NonK	VSCGCASS			3		QEACFG	
	NonJ	VSGS C NVA	L -122aa-	FVND	ADGN	-28aa-	QEAVFG	HVAGT

Figure 8

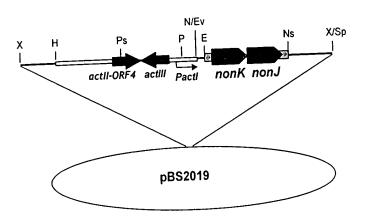


Figure 9

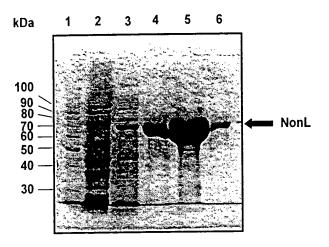


Figure 10

$$(6S,85)$$

$$(R = CH_1) \text{ or } E)$$

$$(AS,85)$$

$$(R = CH_2) \text{ or } E)$$

$$(AS,85)$$

$$(R = CH_3) \text{ or } E)$$

$$(AS,85)$$

$$(AS,87)$$

$$(A$$

Figure 11

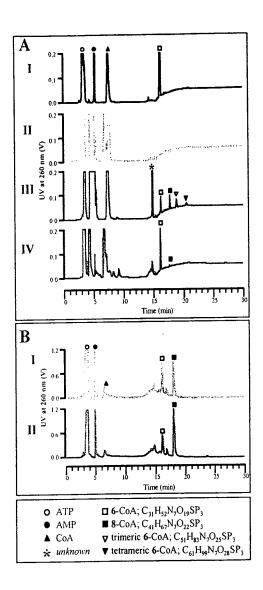


Figure 12

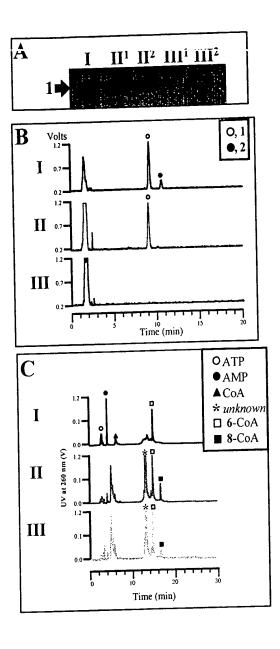


Figure 13

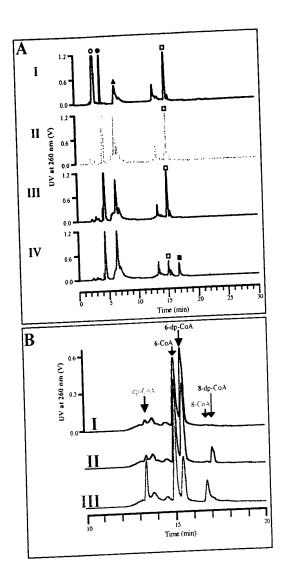


Figure 14

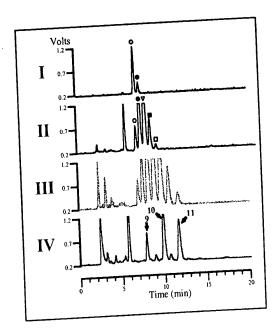


Figure 15

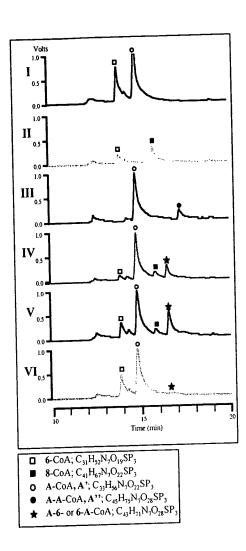


Figure 16